

**Abstract****[0041]**

An antenna feed with an integrated bandpass filter is disclosed. The antenna feed contains a reflector and a dipole antenna. A bandpass filter comprising one or more bandpass filter elements is placed between the reflector and the dipole antenna. The bandpass filter elements may be configured as traces on a printed circuit board. The printed circuit board may also contain the dipole antenna. Integrating a bandpass filter with the dipole antenna results in bandpass filtering with a small insertion loss and low cost.